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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/079,932	02/19/2002	Stephane Kasriel	FC 020219	6509
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NORTH OAKS PATENT AGENCY			DENNISON, JERRY B	
45 ISLAND ROAD				
NORTH OAKS, MN 55127			ART UNIT	PAPER NUMBER
			2143	

DATE MAILED: 01/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/079,932	KASRIEL, STEPHANE	
	Examiner J. Bret Dennison	Art Unit 2143	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 29 September 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-13, 19 and 20 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-13, 19, and 20 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 29 September 2005 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 4/7 7/26 2005
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

1. This Action is in response to Application Number 10/079,932 received on 19 February 2002.
2. Claims 1-13 and 19-20 are presented for examination.

Claim Interpretation

3. Before a detailed mapping, a brief discussion should be made about Examiner's interpretation of the claimed invention. Examiner would just like to point out definitions interpreted based from the Specification as provided below.

As defined in the Specification, *the term "template information" refers to a selected portion of a web page that is relatively unchanging. If there is no difference between different instances of a web page, then the entire page may [be] composed of template information.*

As also defined in the Specification, the term "web object" refers to *in general, web pages, data elements embedded in web page and elements of web pages such as template information and delta information.* [See Instant Specification, page 4, 0021 0022].

Examiner will continue to interpret these terms as defined in the Specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Malkin et al. (U.S. 6,085,193).

4. Regarding claims 1 and 8, Malkin disclosed a method of predictive predownloading of next objects with delta encoding, including steps of:
 - receiving from a client a request for an object (Malkin, col. 4, lines 25-35);
 - updating a prediction map in response to the request and a referring page that indicates an object just previously requested by the client, the prediction map associating the requested object with next objects likely to be requested (Malkin, col. 7, lines 19-25, col. 8, lines 40-50, col. 10, lines 29-50, Malkin disclosed a linked list of next access records);
 - maintaining a stored set of templates for the requested object (Malkin, col. 6, lines 3-15, 49-55, col. 7, line 62 through col. 8, lines 22);
 - calculating delta information for one particular template of the stored set of templates (Malkin, col. 8, lines 38-50); and

sending to a client (i) a hint that includes a suggestion to download a next object based on the prediction map and (ii) delta information for the requested object that specifies the particular template (Malkin, col. 8, lines 38-50, col. 9, lines 5-10, col. 11, lines 1-12).

5. Regarding claim 2, Malkin disclosed the limitations, substantially as claimed, as described in claims 1 and 8, including wherein the requested object comprises a web page (Malkin, col. 4, lines 50-55).

6. Regarding claim 3, Malkin disclosed the limitations, substantially as claimed, as described in claims 1 and 8, including wherein the hint comprises information to be stored in a client cache (Malkin, col. 2, lines 8-13).

7. Regarding claim 4, Malkin disclosed the limitations, substantially as claimed, as described in claims 1 and 8, including wherein the sending step comprises sending to the client the next object (Malkin, col. 8, lines 38-50, col. 9, lines 5-10, col. 11, lines 1-12, Malkin disclosed predictive pre-fetching of objects, in order to send the objects to the client before the client requests the object).

8. Regarding claim 5, Malkin disclosed the limitations, substantially as claimed, as described in claims 1 and 8, including wherein the maintaining step comprises

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conditionally building a new template when the delta information exceeds a selected threshold (Malkin, col. 14, line 48 through col. 15, line 15).

9. Claims 1 and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Becker et al. (U.S. Patent Number 5,878,223).

10. Regarding claims 1 and 8, Becker disclosed a method of predictive predownloading of next objects with delta encoding, including steps of:

receiving from a client a request for an object (Becker, col. 2, lines 30-36);

updating a prediction map in response to the request and a referring page that indicates an object just previously requested by the client, the prediction map associating the requested object with next objects likely to be requested (Becker, col. 2, lines 36-43, col. 8, lines 1-20);

maintaining a stored set of templates for the requested object (Becker, col. 2, lines 44-50, Becker discloses the server containing the next-requested web pages, therefore also including the templates of the web pages);

calculating delta information for one particular template of the stored set of templates (Becker, col. 9, lines 15-20); and

sending to a client (i) a hint that includes a suggestion to download a next object based on the prediction map and (ii) delta information for the requested object that specifies the particular template (Becker, col. 7, line 65-through col. 8, line 20, col. 9, lines 35-45, Becker disclosed calculating probabilities for each possible selection and choosing the highest and sending to the client).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mogul (U.S. Patent Number 5,802,292) hereinafter referred to by Mogul'292 in view of Mogul (HTTP Delta Clusters and Templates, Publication date: 24 August 2000) hereinafter referred to by Mogul.

12. Regarding claims 1, 4, 8, and 11, Mogul'292 disclosed a method of predictive predownloading of next objects with delta encoding, including steps of:

receiving from a client a request for an object (Mogul'292, col. 4, lines 30-33);
updating a prediction map in response to the request and a referring page that indicates an object just previously requested by the client, the prediction map associating the requested object with next objects likely to be requested (Mogul'292, col. 4, lines 34-40);

maintaining a stored set of templates for the requested object (Mogul'292, col. 3, lines 1-20, Mogul disclosed the server systems and proxy systems including storage of the web pages/objects); and

sending to a client (i) a hint that includes a suggestion to download a next object based on the prediction map (Mogul'292, col. 3, lines 50-56).

However, Mogul'292 does not explicitly state:

calculating delta information for one particular template of the stored set of templates; and

sending to a client (ii) delta information for the requested object that specifies the particular template.

In an analogous art, Mogul disclosed a server that computes the delta between current instance of a resource and a separately-identified template resource and the server sends a 'hint' to inform the client of the location of the template resource (Mogul, page 9).

Mogul'292 and Mogul are analogous art because both teachings involve reducing retrieval latency when a user requests web pages, both with the use of caching.

Therefore it would have been obvious to one in the ordinary skill in the art at the time of the invention to incorporate the teaching of Mogul into Mogul'292 to produce a server that can predict the next web page to be visited based on the client request and transferring only the data needed by the client to produce the page to the user for the benefit of reducing retrieval latency (Mogul'292, col. 2, lines 15-20 and 40-45).

13. Regarding claim 2, Mogul'292 and Mogul disclose the limitations, substantially as claimed, as described in claims 1 and 8, including wherein the requested object comprises a web page (Mogul'292, col. 1, lines 60-67).

14. Regarding claim 3, Mogul'292 and Mogul disclose the limitations, substantially as claimed, as described in claims 1 and 8, including wherein the hint comprises information to be stored in a client cache (Mogul'292, col. 2, lines 1-20, col. 3, lines 15-23);

15. Regarding claim 5, Mogul'292 and Mogul disclose the limitations, substantially as claimed, as described in claims 1 and 8, including wherein the maintaining step comprises conditionally building a new template when the delta information exceeds a selected threshold. (Mogul, pages 3 and 9, Mogul teaches calculating new delta information and building a new template resource after an expired timestamp);

16. Regarding claim 6, Mogul'292 and Mogul disclose the limitations, substantially as claimed, as described in claims 1 and 8, including wherein the maintaining step comprises determining a number of changes made to a set of selected objects; and conditionally building a new template when the number of changes exceeds a selected threshold (Mogul'292, col. 4, lines 5-15, Mogul teaches determining thresholds and heuristics on changes in objects and prefetching an object based on a number of criteria including modifications and thresholds).

17. Regarding claims 7 and 9, Mogul'292 and Mogul disclose the limitations, substantially as claimed, as described in claims 6 and 8, including wherein said selected

said selected threshold includes a reference to object age, object size, object type and operator selection (Mogul'292, col. 4, lines 5-15, Mogul teaches object modification timestamp).

18. Regarding claim 10, Mogul'292 and Mogul disclose the limitations, substantially as claimed, as described in claim 8, including wherein the template builder builds the at least one template of the set of next web pages (Mogul, page 9).

19. Regarding claim 12, Mogul'292 and Mogul disclose the limitations, substantially as claimed, as described in claim 11, including wherein the hint includes URLs of templates for likely next pages (Mogul, page 9, Mogul teaches sending users hints to inform the client of the URI of the template resource).

20. Regarding claims 13, Mogul'292 and Mogul disclose the limitations, substantially as claimed, as described in claim 11, including wherein said hint includes information for storing said template in said a client cache (Mogul, page 9, Mogul teaches the client storing static parts of the website in the client's cache).

21. Claims 19 and 20 are rejected as being substantially similar to claims 1 and 4. As the details of claim 11 are also included in claim 1, claims 11, 19, and 20 are rejected under the same prior art used for claims 1 and 4, as being substantially similar claims.

Response to Amendment

Applicant's arguments and amendments filed on 29 September 2005 have been carefully considered but they are not deemed fully persuasive. Applicant's arguments are deemed moot in view of the following new grounds of rejection as explained here below, necessitated by Applicant's substantial amendment (i.e., *by incorporating new limitations into the independent claims, which will require further search and consideration*) to the claims which significantly affected the scope thereof.

Applicant's arguments with respect to claims 1 and 8 have been fully considered but they are not persuasive. Applicant's arguments include the failure of previously applied art to expressly disclose the teachings of "predictive caching with delta encoding" and "creating predictions based on information about the request and a referring page that indicates an object just previously requested by the client" [see Applicant's Response, page 8].

Examiner respectfully disagrees.

It is evident from the mappings found in the above rejection that the combination of Mogul'292 and Mogul disclosed this teaching. Mogul clearly disclosed creating predictions based on information about the request and a referring page that indicates an object just previously requested, as shown in Mogul (Mogul, Abstract, col. 4, lines 30-40).

Examiner does not see in the claims any mention of delta encoding or any details as to what delta encoding is. "Calculating delta information" and "sending delta

information" is broad language, in which any calculation information (i.e. the probabilities of Becker, col. 9, lines 35-42, the frequency of Malkin, col. 11, lines 1-10) would teach.

Applicant's arguments with respect to claims 2-20 are deemed moot in view of the following new grounds of rejection, necessitated by Applicant's amendment to the claims, which significantly affected the scope thereof.

Furthermore, as it is Applicant's right to continue to claim as broadly as possible their invention, it is also the Examiner's right to continue to interpret the claim language as broadly as possible. It is the Examiner's position that the detailed functionality that allows for Applicant's invention to overcome the prior art used in the rejection, fails to differentiate in detail how these features are unique. As it is extremely well known in the networking art as already shown by art used in the above rejection as well as other prior arts of records disclosed predictive predownloading of web pages is taught as well as other claimed features of Applicant's invention. By the rejection above, the applicant must submit amendments to the claims in order to distinguish over the prior art use in the rejection that discloses different features of Applicant's claimed invention.

It is the Examiner's position that Applicant has not yet submitted claims drawn to limitations, which define the operation and apparatus of Applicant's disclosed invention in manner, which distinguishes over the prior art.

Failure for Applicant to significantly narrow definition/scope of the claims and supply arguments commensurate in scope with the claims implies the Applicant intends broad interpretation be given to the claims. The Examiner has interpreted the claims

with scope parallel to the Applicant in the response and reiterates the need for the Applicant to more clearly and distinctly define the claimed invention.

Conclusion

Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

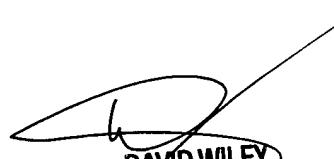
Any inquiry concerning this communication or earlier communications from the examiner should be directed to J. Bret Dennison whose telephone number is (571) 272-3910. The examiner can normally be reached on M-F 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A Wiley can be reached on (571) 272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



J. B. D.
Patent Examiner
Art Unit 2143



DAVID WILEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100